	Total Qty	Sqm					7.56	4108.32	31058.90
Basic rate (Issue Rate)		3804.00							
Area Weightage 8%		304.32							
Total		4108.32							
Providing and fixing factory made single leaft rigid GRP Sandwich composite door shutter of 32mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and on layer of 45 gsm E-Glass Chopped strand Mat (CSM), impregnated with orthopthalic polyster resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 29mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not less than 28mmx32mm and also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc, shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the Salwood reinforcement and the skins. The material and process for manufacturing the door shutters shall confirm to RV/TIFAC Composites Design centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain colour White/Ivory/Beige/Light Grey or any other colour using high quality pigments. Exclusing cost of fixtures and inclusive of supply of shutters to respective work spot. (Page No : 58, item No :9.93)									
Gents Toilet		1	3	0.90		2.10	5.67		
Ladies Toilet		1	5	0.90		2.10	9.45		
Door D1									
Security Room		1	1	0.90		2.10	1.89		
							17.01	3240.00	55112.40
	Total Qty	Sqm							
Basic rate		3000.00							
Area Weightage 8%		240.00							
Total		3240.00							
KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns. (P.No. 301/ I. No. 7.10.1									
Gents Toilet									
Window W1		1	1	1.20		1.20	1.44		
Ventilator		1	4	0.90		0.60	2.16		
Ladies Toilet									
Ventilator		1	4	0.90		0.60	2.16		
Security Room									
Ventilator		1	1	0.90		0.60	0.54		
							5.76	4566.24	26301.54
	Total Qty	Sqm							
Basic rate (Issue Rate)		4228.00							
Area Weightage 8%		338.24							
Total		4566.24							
KSRB 15-17.4 : Applying priming coat over new wood surface and / or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.(Page. No. 118 Item No. 15.58)									
Same as Door Qnty									

Total Qty	**Sqm**					**7.56**	54.00	**408.24**
Basic rate	**50.00**							
Area Weightage 8%	**4.00**							
Total	**54.00**							
Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.(Page. No. 118 Item No. 15.60.1)								
Same as priming coat qnty for Door								
Total Qty	**Sqm**					**7.56**	104.76	**791.99**
Basic rate	**97.00**							
Area Weightage 8%	**7.76**							
Total	**104.76**							
KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locl<ing arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1 000 litre capacity) Specification No.KBS 13.22 (P.No.94, I.No.13.78 of PW, P&IWTD S.R 2018-19)								
		4				4.00		
Total Qty	**each**					4.00	7374.24	**29496.96**
Basic rate	**6828.00**							
Area Weightage 8%	**546.24**							
Total	**7374.24**							
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.96, I.No. 13.86.2 of PWD SR 2018-19)								
20mm Nominal OD Pipes		200				200.00		
Total Qty	**m**					**200.00**	253.80	**50760.00**
Basic rate	**235.00**							
Area Weightage 8%	**18.80**							
Total	**253.80**							
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes(P.No.96, I.No. 13.86.3 of PWD SR 2018-19)								
25mm nominal OD pipes		200	--	--	--	200.00		
Total Qty	**m**					**200.00**	316.44	**63288.00**
Basic rate	**293.00**							
Area Weightage 8%	**23.44**							
Total	**316.44**							
KSRB13-8.5 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 110mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9(P.No.94, I.No.13.70.4 of PW, P&IWTD S.R 2018-19)								
110mm Outer dia		100	--	--	--	100.00		
Total Qty	**m**					**100.00**	410.40	**41040.00**
Basic rate	**380.00**							
Area Weightage 8%	**30.40**							
Total	**410.40**							

KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (P.No.82, I.No. 12.41 of PWD SR 2018-19)								
		5	--	--	--	5.00		
Total Qty	**unit**					**5.00**	1226.88	**6134.40**
Basic rate	**1136.00**							
Area Weightage 8%	**90.88**							
Total	**1226.88**							
Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 88, I.No. 12.111 of PWD SR 2018-19)								
		10	--	--	--	10.00		
Total Qty	**each**					**10.00**	162.00	**1620.00**
Basic rate	**150.00**							
Area Weightage 8%	**12.00**							
Total	**162.00**							
Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (P.No. 88, I.No. 12.113.1 of PWD SR 2018-19)								
		23	--	--	--	23.00		
Total Qty	**each**					**23.00**	270.00	**6210.00**
Basic rate	**250.00**							
Area Weightage 8%	**20.00**							
Total	**270.00**							
KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (P.No. 91, I.No. 13.23 of PWD SR 2018-19)								
		23	--	--	--	23.00		
Total Qty	**each**					**23.00**	205.20	**4719.60**
Basic rate	**190.00**							
Area Weightage 8%	**15.20**							
Total	**205.20**							
KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.91/ I.No. 13.34 of CSR 2018-19)								
		8	--	--	--	8.00		
Total Qty	**each**					**8.00**	484.92	**3879.36**
Basic rate	**449.00**							
Area Weightage 8%	**35.92**							
Total	**484.92**							
KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.91/ I.No. 13.33 of CSR 2018-19)								
		12	--	--	--	12.00		
Total Qty	**each**					**12.00**	362.88	**4354.56**
Basic rate	**336.00**							
Area Weightage 8%	**26.88**							
Total	**362.88**							

Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar (1), C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation (1) in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm (P.No. 73/ I.No.11.50.2 of PWD SR 2018-19)								
		12	--	--	--	12.00		
Total Qty	**Nos**					**12.00**	5724.00	**68688.00**
Basic rate	**5300.00**							
Area Weightage 8%	**424.00**							
Total	**5724.00**							
KSRB 11 -6 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, S-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre white glazed I vitreous china clay low level, flushing cistern (all are approved make) with fittings, C.1 I M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.								
		10	--	--	--	10.00		
Total Qty	**Each**					**10.00**	5191.56	**51915.60**
Basic rate	**4807.00**							
Area Weightage 8%	**384.56**							
Total	**5191.56**							
KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.80 I.No.12.23 of CSR 2018-19)								
		8	--	--	--	8.00		
Total Qty	**unit**					**8.00**	4327.56	**34620.48**
Basic rate	**4007.00**							
Area Weightage 8%	**320.56**							
Total	**4327.56**							
KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77, I.No.12.2 of PWD SR 2018-19)								
		7	--	--	--	7.00		
Total Qty	**Each**					**7.00**	4561.92	**31933.44**
Basic rate	**4224.00**							
Area Weightage 8%	**337.92**							
Total	**4561.92**							
KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.79 I.No.12.7 of CSR 2018-19)								
		8	--	--	--	8.00		
Total Qty	**unit**					**8.00**	3317.76	**26542.08**
Basic rate	**3072.00**							
Area Weightage 8%	**245.76**							

Total	3317.76							
KSRB 12-1.2 : Providing and laying in position to required level or slope 150mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5 / 12.7 (P.No.70 I.No.11.2 of CSR 2018-19)								
		1	75.00	--	--	75.00		
Total Qty	**m**					**75.00**	397.44	**29808.00**
Basic rate	**368.00**							
Area Weightage 8%	**29.44**							
Total	**397.44**							
Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 - -150mm dia (P.No.246, I.No.34.7.1 of CSR 2018-19)								
		12	5.00	--	--	60.00		
Total Qty	**m**					**60.00**	422.28	**25336.80**
Basic rate	**391.00**							
Area Weightage 8%	**31.28**							
Total	**422.28**							
Providing Square Tank Covers of size 24" X 24" at 21kgs(Page No : XXXVI)								
	Each	2				**2.00**	1273.00	**2546.00**
Providing Footsteps of size 15" X 14" Heavy (Page No : XXXVI)								
	Each	10				**10.00**	277.00	**2770.00**
Rainwater Harvesting								
KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5								
(P.No.6, I.No.2.4 of PW,P&IWTD S.R 2018-19)								
For Road Side	Cum	8	1.766		4.00	56.52		
For PIT Connecting Drain		8	2.65	0.450	0.45	4.29		
						60.81	211.79	**12879.46**
Basic rate	130.00							
Loading and unloading with 5km lead= 57+2.0x1.28x5 = 69.80	69.80							
Area Weightage 6%	11.99							
Total	211.79							
KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 - (1:4:8 - (M7.5)) with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
(P.No.13, I.No.4.3 of PW,P&IWTD S.R 2018-19)								
For PIT Connecting Drain		8	2.65	0.45	0.125	1.19		
						1.19	5408.12	**6449.18**
Basic Rate	5102.00							
Area weightage 6%	306.12							

	Total Rate	5408.12							
	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 - - 300mm. dia								
	(P.No.254, I.No.34.6.1 of PW,P&IWTD S.R 2018-19)								
	For PIT Connecting Drain	Cum	8	2.65	--	--	21.20		
							21.20	1626.04	**34472.05**
	Basic Rate	1534.00							
	Area weightage 6%	92.04							
	Total Rate	1626.04							
	Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 - - 1200mm dia								
	(P.No.255, I.No.34.7.8 of PW,P&IWTD S.R 2018-19)								
	1200mm Dia	Mtr	8	--	--	4.00	32.00		
							32.00	5976.28	**191240.96**
	Basic Rate	5638.00							
	Area weightage 6%	338.28							
	Total Rate	5976.28							
	Filter media stone aggregate 60mm &down size								
	(P.No.II, Sl.No.34 Code No.0746 of PW,P&IWTD S.R 2018-19)								
	For RWH	Cum	8	1.130		1.20	**10.85**		
							10.85	1341.06	**14552.93**
	Basic Rate	1054.29							
	Over Head Charges 10%	105.43							
	Contractor Profit 10%	105.43							
	Sub Total	1265.15							
	Area weightage 6%	75.91							
	Total Rate	1341.06							
	Crushed stone aggregate 13.2mm to 10mm								
	(P.No.II, Sl.No.39 Code No.0921 of PW,P&IWTD S.R 2018-19)								
	For RWH	Cum	8	1.130		1.20	**10.85**		
							10.85	1388.30	**15065.60**
	Basic Rate	1091.43							
	Over Head Charges 10%	109.14							
	Contractor Profit 10%	109.14							
	Sub Total	1309.72							
	Area weightage 6%	78.58							
	Total Rate	1388.30							
	Sand/ Artificial Sand/ Manufactured Sand								
	(P.No.II, Sl.No.49 Code No.0334 of PW,P&IWTD S.R 2018-19)								
		Cum	8	1.130		0.50	**4.52**		
							4.52	2024.30	**9153.07**
	Basic Rate	1591.43							
	Over Head Charges 10%	159.14							
	Contractor Profit 10%	159.14							
	Sub Total	1909.72							
	Area weightage 6%	114.58							

	Total Rate	2024.30							
	Supplying and Fixing of Garbage bins rectangular with permanent structure series without arch 100litre capacity approved by Engineer in charge								
	Garbage Bins	No's							
			6				6.00		
							6.00	18450.00	**110700.00**
	Approved Data Rate	**18450.00**							
	Executive bench made out of sadaralli grey stone with hand suport 3 line finishing with arch desiagn with 100cm slabs height 90% length 45cms (data approved rate)								
	Stone Benches	No's							
			13				13.00		
							13.00	18200.00	**236600.00**
	Approved Data Rate	**18450.00**							
	Drilling of Bore Well								
	Geophysical investigation of site for Sinking borewell for supplying drinking water to the habitations either through the hand pump,MWS,P.W.S.S by vertical electrical sounding by adpoting venner or Schlumberger's method,including reconnaissance survey of Geological formation. Geophysical investigation of existing ground indecundity its quality & acceptability of the users indicating the location of site,recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre inconsolidated formation for proper seating of casing pipe,depth of drilling required to cover full depth of aquifer proposed to be tapped,probable yield and other information required including transportation of instrument and accesories to work site,engaging technical personal and labour required etc.,(PRED SR 2012-13 It.9.4, P-47) (PRED SR 20-05-2019 It.13.04)								
		BW	1				1.00	3768.00	**3768.00**
	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) (PRED SR 20-05-2019 It.13.01,)								
	0 to 50 m	Rmt	1	50.00			50.00	347.00	**17350.00**
	50 to 100 m	Rmt	1	50.00			50.00	442.00	**22100.00**
	100 to 150 m	Rmt	1	50.00			50.00	456.00	**22800.00**
	150 to 200 m	Rmt	1	50.00			50.00	536.00	**26800.00**
	200 to 250 m	Rmt	1	50.00			50.00	634.00	**31700.00**
	250 to 300 m	Rmt	1	50.00			50.00	700.00	**35000.00**
	300 to 350 m	Rmt	1	50.00			50.00	825.00	**41250.00**
	Providing and fixing **250mm dia PVC (casing pipe)** (page no.XXXI, SL no.909) (KPWD SR 2016-17)								
		Rmt	2	6.00			12.00	2600.00	**31200.00**

	Supply of ISI Mark **175mm** nominal Bore, Plain end **steel casing Pipe**-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket confirming to IS 270:2001 and other end with screwed pipes. All pipes shall be reasonably free from defectes. The tubes shall be resonably straigth should be with ISI Marking Weighting 25.10 kg/mtr (Inclusive of all taxes and durties) Prices include Collar - medium duty. (Page No.III,It no.84)PRED SR 2012-13.								
		Rmt	1	30.00			30.00	1325.00	**39750.00**
	Providing **175mm Dia M.S. Collar** (P.No.iii,I.No.86) PRED SR 2012-13								
		No	5				5.00	150.00	**750.00**
	Providing **175mm dia Bore Cap** CE (M) (P.No.iii,I.No.85) PRED SR 2012-13								
		No	1				1.00	100.00	**100.00**
	Atalanta suguna CRI **KIRLOSKAR** and other equipments **pumps** 10.00 **HP/7.5 KV (20 stage)** (Pg No. XLI. Sl.no.29) KPWD SR-2018-19								
		No	1				1.00	49955.00	**49955.00**
	Providing and fixing in trenches **galvinised/mild steel tube 50mm dia nominal bore** with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19.								
	Basic rate	388.00							
	A.W @ 6%	23.28							
	Total	**411.28**							
		Rmt	1	300.00			300.00	411.28	**123384.00**
	Supplying and drawing **3 core flat PVC** sheathed submersible **pump cable** maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm (PWD Ele SR 2014-15,P-12/It-2.10.3)								
	Add 5mts for Switching	Rmt	2	305.00			610.00	126.70	**77287.00**
	Providing and fixing in position **50mm Nominal bore non-return valve** vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)								
	Basic rate	1269							
	A.W @ 6%	76.14							
	Total	**1345.14**							
		No	1				1.00	1345.14	**1345.00**
	Spplying and fixing **50mm GI Union**.(PWD SR 2016-17,P-XXXIX)								
		No	1				1.00	223.70	**224.00**
	Spplying and fixing **50mm GI Elbow.**(PWD SR 2016-17,P-XXXIX)								
		No	1				1.00	111.80	**112.00**

	Supplying and fixing **50mm GI Nipple.**(PWD SR 2016-17,P-XXXIX)							
		No	1			1.00	104.30	**104.00**
	Supplying and fixing **50mm GI Hose colleres**(PWD SR 2016-17,P-XXXIX)							
		No	50			50.00	103.00	**5150.00**
	Supplying and fixing 20" x 20" x 2.5" polished **wood board** made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P.no.44 / I no. 6.6.6 KPWD ELE SR 2014-15							
		No	1			1.00	302.00	**302.00**
	Supplying and fixing miniature circuit breakers on existing **MCB distribution board** using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2014-15,P-47/Sl no.6.16.6) 40-63 Amps							
		No	1			1.00	1936.00	**1936.00**
	Supplying of **TPST with rewirable porcelain** channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2014-15,P-44,It-6.5.1)							
		No	1			1.00	1868.00	**1868.00**
	Supplying and fixing **LED type panel board** indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2014-15,p-48,Sl no.6.36)							
		No	1			1.00	442.00	**442.00**
	Suppling fully automatic **star delta starter** unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2014-15,p-44,Sl no.-6.2.1)							
		No	1			1.00	6583.00	**6583.00**
	Supplying and fixing **single phase preventer** using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2014-15,p-44/Sl no.6.3)							
		No	1			1.00	768.00	**768.00**
	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2014-15,p-6,It-2.5.4(d)							
		Mtrs	1	20.00		20.00	42.10	**842.00**
	Supplying fixing and wiring **heavy duty low voltage capacitors** conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2014-15,p-48/Sl no.6.35)							
		No	4			4.00	414.00	**1656.00**

	Supplying, fixing, wiring, **earth electrode** for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2014-15,p-55,Sl no.7.1)								
		No	1				1.00	2727.00	**2727.00**
	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2014-15,p-62,It-7.9.2) hard soil							
		Mtrs	1	8.00			8.00	106.00	**848.00**
	Supplying laying **1.1 KV class LT UG cable** having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2014-15,p-55,It-7.4.4)								
		Mtrs	1	10.00			10.00	140.40	**1404.00**
	Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2014-15,p-61,It-7.8.1)								
		No	1	25.00			25.00	10.80	**270.00**
	Supplying and fixing class-A(medium duty) **GI pipe wall** thickness not less then 3.25mm **on pole/wall/drain** crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2014-15,p-62,It-7.12.1)								
		Rmt	1	2.00			2.00	345.00	**690.00**
	Supplying and fixing **LT cast iron pot heads** suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2014-15,p-62,It-7.13.2)								
		No	1				1.00	280.00	**280.00**
	Supplying and fixing **porcelain fuse channel** with cut out on the existing wooden block and wiring complete 63 amps(PWD Ele SR 2014-15,p-45,It-6.7.3)								
		No	3				3.00	234.00	**702.00**
	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (KPWD SR 2018-19, P-140, It 18.47)								
	Basic rate	899.00							
	A.W @ 6%	53.94							
	Total	**952.94**							
	Main line		1	200.00	0.45	0.20	18.00		

	Distribution(200/10=No's)	Cum	20	10.00	0.45	0.20	18.00		
							36.00	952.94	**34306.00**
114	**Earthwork excavation** for foundation of buildings, **water supply**, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 (KPWD SR 2018-19, P-6, It-2.4)								
	Basic rate	449.00							
	A.W @ 6%	26.94							
	Total	**475.94**							
	Main line	Cum	1	200.00	0.45	0.30	27		
	Distribution(200/10=No's)		20	10.00	0.45	0.30	27.00		
							54.00	475.94	**25701.00**
115	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - **50mm nominal** OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)								
	Basic rate	432.00							
	A.W @ 6%	25.92							
	Total	**457.92**							
	Main line	Mtr	1	200.00			200.00		
							200.00	457.92	**91584.00**
116	Making connection of **G.I.distribution** branch with G.I.main of 25mm to 40mm. Nominal bore, including cutting and threading the pipes,providing and fixing Tee, nuts,labour for all item of works,testing and HOM of equipments complete as per specifications. (P.No.93/ I.No. 13.20 of KPWD SR 2018-19)								
	Basic rate	483.00							
	A.W @ 6%	28.98							
	Total	**511.98**							
	Distribution(200/10=No's)	Each	20				20.00	511.98	**10240.00**
117	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - **20mm nominal** OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)								
	Basic rate	157.00							
	A.W @ 6%	9.42							
	Total	**166.42**							
	Distribution line	Mtr	20	10.00			200.00		
	Tap Connection		20	1.00			20.00		
							220.00	166.42	**36612.00**
118	Providing and fixing to wall, ceiling and floor **Medium density polyethylene pipes** 6.00 kgf/sq.cm working pressure **25mm outside diameter** with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-13.67)								
	Basic rate	129.00							
	A.W @ 6%	7.74							

	Total	**136.74**					100.00			
	for other Purposes	Mtr	1	100.00			100.00	136.74	**13674.00**
119	KSRB 2-4 : **Refilling available around earth pipe lines**,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications.(KPWD SR 2018-19, P-7, it-2.11)									
	Basic rate	121.00								
	A.W @ 6%	7.26								
	Total	**128.26**					37.80	128.26	**4848.00**
	70% of Qty Vide item No.31	Cum								
120	**Loading and unloading** of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)									
	Item No:-17.1 Loading	57.00								
	Conveying for 5km	12.8								
	Total	69.80					52.20			
	Balance Qty Vide item No. 30+ 30% of 31 item	Cum					52.20	69.80	**3644.00**
121	KSRB 2-4 : Providing and fixing in position **brass gate valve** with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. (P.No.94/ I.No. 13.37 of KPWD SR 2018-19)									
	Basic rate	1739.00								
	A.W @ 6%	104.34								
	Total	**1843.34**					1.00	1843.34	**1843.00**
	For Main Line	Each	1							
122	KSRB13-6.2-1 : Providing and fixing in position **brass stop cock** of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (Pg No:-93/I.No:-13.26 of KPWD SR 2018-19 2018-19)									
	Basic rate	141.00								
	A.W @ 6%	8.46								
	Total	**149.46**					20.00	149.46	**2989.00**
	Tap Connection	Each	20							
123	KSRB 4-1.3 : Providing and laying in position **plain cement concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.3 of KPWD SR 2018-19)									
	Basic rate	5102.0								
	A.W @ 6%	306.12								
	Total	**5408.1**								
	Main line	Cum	1	200.00	0.45	0.15	13.50			
	Distribution(200/10=No's)		20	10.00	0.45	0.15	13.50			
							27.00	5408.12	**146019.00**

124	BESCOM deposit Charges and miscellaneous							
		No	1.00			1.00	12000.00	12000.00

125	Total of KPWD SR 2018-19	7819769.44
	Total Construction Cost	8605787.44
126	12% GST on KPWD 2018-19 items	938372.33
	Electrification LS	258173.62
127	Cost towards Preparation of DPR and PMC / Third Party inspection LS	190884.00
128	Sub Total	9993217.39
129	Miscellaneous and rounding off	6782.61
	Total	10000000.00

Certificate.

1. The rates adopted based on the PWD SR, Bangalore circle for year 2018-19.
2. The provisions made in the estimate are necessary and essential.
3. The workspot was inspected and work is found to be necessary.
4. The area comes within the Bruhat Bangalore Mahanagara Palike limits.

For Tejus Consultants

Assistant Engineer

Assistant Executive Engineer

Executive Engineer Dt: 16/9/19

Technical Sanction
Accorded For Rs100.0 lacs only
Head of A/C P3692
CER NO : 84 **Dt:** 20.09.2019

TA CE (YNK)